

TELEFAX 21

CLASSIFICATION SECRET  
CENTRAL INTELLIGENCE AGENCY  
**INFORMATION REPORT**

REPORT NO.

CD NO.

COUNTRY Germany (Russian Zone)

DATE DISTR. 6 May 1952

SUBJECT Main Scientific Department, Zeiss Jena

NO. OF PAGES 2

PLACE  
ACQUIRED

DATE OF INFO.

NO. OF ENCLS.

SUPPLEMENT TO  
REPORT NO.

25X1A

25X1

25X1X

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT 50 U.S.C. 31 AND 32, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. REPRODUCTION OF THIS WORK IS PROHIBITED.

25X1

1. The Wissenschaftliche Hauptabteilung (Main Scientific Department) of Zeiss Jena has been without a chief since the death of Dr. Hans Harting.
2. The Department includes a number of laboratories and testing offices. A partial list of these follows:
  - a) Laboratory for treatment of surfaces
  - b) Medlab:- laboratory for research on medical instruments
  - c) Milabs "A" and "O": laboratories for the development of microscopes
  - d) Prüf: office for testing light and illumination devices
  - e) Elprüf: office for testing electrical devices

Computing offices:

- a) W-0 Fernrohr (Wissenschaftlich-Optische Entwicklung Fernrohr)
- b) W-0 Mikro: computing office for microscopes
- c) W-0 Photo: computing office for cameras

Main testing offices:

- a) Z-Prüf: central testing office  
b) Photoprüf

The last two offices are responsible for testing all optical devices. Whereas Elprüf and Liprpf do provisory testing, Z-Prüf and Photoprüf undertake final optical testing. Z-Prüf deals chiefly with lenses having long focal distances, while lenses with shorter focal distances are tested in Photoprüf.

25X1

3.

Dr. Karl August Sonnefeld. During the war, Sonnefeld headed  
Erich's astro department, in which astro-calculations and telescropy

~~CLASSIFICATION~~ ~~SECRET~~

[illegible]

computations were made. Sonnefeld's special wartime field was the supervision of periscope calculations. In October 1946, with about 300 Zeiss specialists, Sonnefeld was sent to Russia; Sonnefeld stayed with some of his colleagues in Moscow, while the others were sent to Leningrad and Kiev. The Moscow group built a plant similar to Zeiss somewhere in the Moscow region. Sonnefeld returned to Germany with about 80 percent of his colleagues. His former astro-department was combined with W-O Fernrohr; the office has not carried out any periscope calculations.\*

4. W-O Fernrohr is assigned the task of making all calculations pertaining to telescopic equipment, astro-devices, geodetic apparatus, fine measuring devices, etc; the office handles calculations for all equipment other than microscopic and camera which are done by W-O Mikro and W-O Photo.
5. Among the many jobs done by W-O Fernrohr, three seem particularly important:
  - a) Calculations for the A-1 device.
  - b) Calculations for the Schlieren device. The equipment consisted of two tubes made of light metal and painted grey, arranged in succession with a space between them for the test object. The tubes were supported by a foundation made of metal. A platform at the rear end of the device permitted vision through the tubes. They had a length of about five meters and a diameter of about one-half meter. The warmth of a hand was sufficient to produce Schlieren. W-O Fernrohr personnel, when they saw the equipment, were told that it was for material testing. It is known that at least three units were delivered to the Russians.\*\*
  - c) Calculations for condensers (Kondensoren). These are lenses with a strong curvature in order to concentrate light on a point or on a surface. They are needed for all kinds of projectors.
6. W-O Photo was formerly called Phorech. Dr. Harry Zoellner is its chief.

25X1A

\* Comment: No such calculations are made by W-O Photo or Mikro. It is believed that none are done at Zeiss Jena.)

25X1A

\*\* Comment: It is believed that a much greater number was actually delivered.)

SECRET